ᅌ DrillBit

The Report is Generated by DrillBit Plagiarism Detection Software

Submission Information

Author Name	Wahyu Nanda
Title	HASIL CEK_Wahyu Nanda
Paper/Submission ID	1570652
Submitted by	perpustakaan.similarity@uad.ac.id
Submission Date	2024-03-26 09:13:29
Total Pages	10
Document type	Article

Result Information

Similarity 7 %





Exclude Information

Quotes	Excluded	Language	Non-English
References/Bibliography	Excluded	Student Papers	Yes
Sources: Less than 14 Words %	Not Excluded	Journals & publishers	Yes
Excluded Source	65 %	Internet or Web	Yes
Excluded Phrases	Not Excluded	Institution Repository	Yes
			1

Database Selection



A Unique QR Code use to View/Download/Share Pdf File

👌 DrillBit

DrillBit Similarity Report

	7 SIMILARITY %	17 MATCHED SOURCES	A GRADE	A-Satisfa B-Upgra C-Poor (D-Unacc	actory (0-10%) ide (11-40%) (41-60%) ceptable (61-100%)	
LOCA	TION MATCHED DOMAIN	Ĩ		%	SOURCE TYPE	
2	ijere.iaescore.com			1	Publication	
3	mdpi.com			2	Internet Data	
4	fjfsdata01prod.blob.core.v	vindows.net		<1	Publication	
5	www.atlantis-press.com			1	Publication	
6	1library.co			1	Internet Data	
7	moam.info			<1	Internet Data	
8	www.ilo.org			1	Publication	
9	jurnal.ugm.ac.id			<1	Internet Data	
10	journal.umy.ac.id			<1	Internet Data	
11	core.ac.uk			<1	Internet Data	
12	repositorioslatinoamericar	105		<1	Publication	
13	Leftist agendas, education Rober-1983	al vouchers Toward a critical a	appraisal by	<1	Publication	
14	www.faidelhi.org			<1	Internet Data	
15	uad.ac.id			<1	Internet Data	

		<1	
l 7 e	ejournal.radenintan.ac.id	<1	Publication
l 8 p	publications.iowa.gov	<1	Publication
	EXCLUDED SOURCES		
l į	ijere.iaescore.com	65	Publication

International Journal of Evaluation and Research in Education (IJERE) Vol. 12, No. 4, December 2023, pp. 1771~1780 ISSN: 2252-8822, DOI: 10.11591/ijere.v12i4.25790

1771

Indonesian emotion regulation scale for students based on reappraisal and suppression factor: The Rasch analysis

Waharjani¹, Wahyu Nanda Eka Sapu<mark>m</mark>2, Dewi Afra Khairunnisa²

¹Department of Hadith Science, Fa 9 ty of Islamic Religion, Universitas Ahmad Dahlan, Yogyakarta, Indon 17 ²Department of Guidance and Counseling, Faculty of Teacher Training and Education, Universitas Ahmad Dahlan, Yogyakarta, Indonesia

Article Info

Article history:

Received Oct 25, 2022 Revised Aug 31, 2023 Accepted Sep 11, 2023

Keywords:

Aggressiveness Bullying Emotion dysregulation Indonesian version scale Violence

ABSTRACT

Evin human being has emotional turmoil, which will be a seriors problem if they cannot control it. The importance of emotion regulation has become one of the bases for developing a measure of emotion regulation for students, the Indonesian emotion regulation scale (IERS). No research yet describes an instrument that measures students' level of emotion regulation in Indonesia. IERS consists of nine items in two aspects: reappraisal and suppression factor. The content validity test involves two experts in the field of psychometrics. In comparison, the construct validity test involved 354 high school students in Yogyakarta, Indonesia. Data analysis using interrater reliability (IRR) coefficient of Cohen's kappa and Rasch analysis. Based on the study of the IRR coefficient of Cohen's kappa, two experts agree on the acceptability of the IERS statement items. Besides that, the results of the application of Rasch analysis show that IERS is good, precise, and conforms with the model. IERS is a reliable and valid tool to measure plents' level of emotion regulation accurately. This paper discusses the implications and recommendations for further research for the implementation of guidance and counseling containing the value of emotion regulation as a follow-up to the performance of IERS.

This is an open access article under the CC BY-SA license.



Corresponding Author:

Wahyu Nanda Eka Saputra Department of Guidance and Counseling, Faculty of Teacher Training and Education, Faculty of Teacher Training and Education, Banguntapan, Bantul, Yogyakarta 55166, Indonesia Email: wahyu.saputra@bk.uad.ac.id

1. INTRODUCTION

Students need a safe and comfortable situation to study at school. Several research results indicate that the level of feeling safe and comfortable at school correlates with student performance in the academic field [1], [2]. Various feelings of discomfort, insecurity and even fear of students in cademic activities at school appear due to high student violence [3], [4]. The school situation is one of the essential factors that can support achieving educational goals. However, the reality on the ground shows different dynamics. Student violence is a problem that often arises in schools, for example, aggressive behavior [5], [6] and bullying [7], [8], both traditional and online. One of the causes of students causing violence is the inability of students to optimize emotion regulation [9], [10]. This absence of emotion regulation triggers the lack of students' efforts to suppress the violent in pulses that exist in them.

A measuring tool to identify the level of emotion regulation is one of the options for determining student emotion regulation portraits. The measurement results with these measuring instruments are the basis for preparing guidance and counseling programs to improve emotion regulation [11], [12]. Several studies

have made efforts to develop the self-regulation of emotion scale, but not many data analysis techniques have and methods that provide accurate data. An example is research that uses the Pearson correlation, namely emotion regulation strategies for artistic creative activities scale [13]. Another example is research that uses factor analysis, namely the state difficulties in emotion regulation scale [14] and Turkish version of difficulties in emotion regulation scale-brief form [15]. Furthermore, other studies have also formulated a scale of emotion regulation, namely the Hindi version of the difficulties in emotion regulation scale [16] and modified versions of the difficulties in emotion regulation scale [17]. These weaknesses are the trigger to developing a more accurate measuring tool to identify self-regulation of emotion. The Rasch model is an alternative to provide a more precise estimate of the reliability of measuring instruments [18]–[20].

This study aims to develop and validate an emotion regulation scale using Rasch analysis, and we named it Indonesian emotion regulation scale (IERS). The IERS development process considers the Indonesian people's cultural aspects. Instruments that payottention to cultural elements can accurately measure the human condition [21], [22]. The measuring instrument that measures the level of emotion regulation involves two aspects: reappraisal and suppression factor [23]–[25]. Reappraisal factor refers to anges in how people think when interpreting situations with the potential for specific emotional reactions. At the same time, the suppression factor emphasizes the form of emotional regulation by suppressing ongoing expressive behavior. IERS is one of the alternative instruments to measure students' level of emotion regulation in Indonesia. By paying attention to analytical techniques using the Rasch model and aspects of Indonesian culture, IERS can present more accurate data about the level of student peace.

2. RESEARCH METHOD

2.1. Research design

This study aims to validate a psychological measuring tool, nagely the Indonesian emotion regulation scale. The psychological measuring tool uses two main aspects to measure the level of student emotion regulation: reappraisal and suppression factor. Indonesian emotion regulation scale validation uses Rasch analysis, considering that Rasch analysis provides information on several criteria, namely item fit, difficulty level, Rasch discrimination power, and item information function [26]. The advantage of using Rasch analysis is that it can provide statistical analysis that is more accurate than conventional data analysis techniques. Rasch analysis also includes holistic information about the instrument and can meet the criteria for the definition of an instrument [18].

2.2. Participants

This study involved 354 high school students in the city of Yogyakarta, Indonesia. The researchers used a cluster random sampling technique to determine study participants in five schools. Table 1 describes the research participants as test subjects in conducting IERS validation.

	Table 1. Distribution of participar	nts
No	School name	Number of participants
1	Muhammadiyah Vocational High School 1 Yogyakarta	88
2	Muhammadiyah Vocational High School 2 Yogyakarta	28
3	Muhammadiyah Vocational High School 4 Yogyakarta	86
4	State Vocational High School 6 Yogyakarta	102
5	State Senior High School 8 Yogyakarta	50
	Total	354

2.3. Data collection tools

The researchers validated the IERS instrument. The research instrument that measures the level of emotion regulation consists of two aspects: reappraisal and suppression factor. Table 2 describes the draft of the instrument before we validated the instrument using Rasch analysis.

2.4. Data collection

The development of the IERS instrument through many scientific procedures so that this instrument can accurately measure students' emotional regulation levels. In the first step, we planned research by formulating research materials, conducting a literature review, and compiling an instrument grid. Then, in the second step, we carried out a content validation process by experts to identify language acceptability and the suitability of instrument items with operational definitions. The third step is implementation, which is compiling a google form to accommodate research participants filling out the IERS instrument. Next, the last Int J Eval & Kes Educ

ISSN: 2252-8822

1 1773

step is to analyze the data using the Rasch model for validating the instrument so that the instrument could be ready to measure students' emotion regulation levels. Data analysis with Rasch analysis is a form of construct validity that can present the results of item suitability analysis in measuring students' emotional regulation.

2.5. Data analysis

Data analysis in this study uses the inter-rater reliability (IRR) coefficient of Cohen's kappa and Rasch models. The first analysis, namely the IRR coefficient of Cohen's kappa, describes a description of the agreement between two experts in psychometry for the acceptability of the emotional regulation scale instrument item. Analysis of the IRR coefficient of Cohen's kappa using SPSS software. The second analysis is the Rasch model with the help of Winstep software [27]. By using the Rasch model, it can describe the interaction between items and respondents at once. Rasch's analysis uses two fundamental theorems: the level of individual ability/agreement and the difficulty of the agreed items [27]. The psychometric tools that are the basis for analyzing the research data include summary statistics (quality of respondents, quality of instruments, and interactions between person and item). This study also provides item measure (items that are most difficult to agree on and the easiest to agree with by respondents), item fit order (items fit and misfit), and unidimensionality (ability to measure what should be measured).

Table 2. Indonesian emotion regulation scale instrument grid

Indicator	Statement	No item
Reappraisal factor	I control my emotions by changing the way I think about the situation I'm in	5
	When I want to reduce negative feelings, I change the way I think about the situation at hand	6
	When I want to feel more positive emotions, I change how I think about my situation	4
	When I want to feel more positive (like happy or happy), I change what I think	1
	When I want to reduce negative feelings (such as sadness or anger), I change what I think about	2
	When I am faced with a stressful situation, I think of ways to help me stay calm	3
Suppression factor	I control my emotions by being silent	9
	When I feel negative emotions, I do not express them	10
	I keep emotions in my heart	7
	When I feel positive emotions, I am careful not to express them	8

3. RESULTS AND DISCUSSION

The results of the first study indicate that two experts in the field of psychometrics have a good agreement on the acceptability of the IERS items. The results of this study are based on data analysis using the IRR coefficient of Cohen's kappa using SPSS software. Table 3 describes the summary results of the expert assessment of the IERS instrument. Based on the table, we analyzed the IRR coefficient of Cohen's kappa to determine the level of agreement between the two experts in assessing IERS. The analysis results show that both experts agree on the acceptability of IERS. Table 4 shows a summary of the results of the data analysis.

Table 3. Summary of expert evaluation of IERS

D		Expert 1						
Participant's a	nswer	1	2	3	4			
Expert 2	1	0	0	0	0			
•	2	0	0	0	0			
	3	0	0	1	1			
	4	0	0	1	21			

Analysis of IRR coefficient of Cohen's kappa shows IRR, namely K=0.583 with good category. Asymptotic standard error indicates standardized measurement error. The smaller the magnitude of this coefficient, the more reliable the measurement results are. In Table 4, the asymptotic standard error shows a coefficient of 0.262. Based on data analysis, we conclude that both experts agree on the acceptability of the IERS statement items.

Table 4	. Description	of the data	processing	of the	IRR	coeffic	ient	of C	<u>Co</u> hen'	s kappa

		Value	Asymptotic standard error ^a
Measure of agreement	kappa	.583	.262
N of valid cases		10	

In addition to content validity, this study ested construct validity using Rasch analysis. The results of the study will describe a description of: i) The quality of the respondents, the quality of the instrument, and the interaction between the person and the item; ii) The items that are the most difficult to agree on, and the easiest to agree with by the respondents; iii) The items that are fit and misfit; iv) The ability of the instrument to measure what it is supposed to measure; and v) Person-item map distribution. Figure 1 shows the results of the analysis in the form of summary statistics. The summary statistics section describes the quality of respondents, instruments, and interactions between people and instrument statement items.

	TOTAL			MODEL		INFI	т	OUT	FIT
	SCORE	COUNT	MEASURE	S.E.	M	ISQ	ZSTD	MNSQ	ZST
MEAN	28.7	10.0	.68	.55					
SEM	.3	.0	.08	.01					
P.SD	5.0	.0	1.43	.18					
S.SD	5.0	.0	1.43	.18					
MAX.	40.0	10.0	5.94	1.85					
MIN.	10.0	10.0	-5.04	.40					
REAL R	MSE .65	TRUE SD	1.27 SEF	ARATION	1.95	PERSO	N REL	IABILIT	Y .75
ODEL R	MSE .58	TRUE SD	1.31 SEF	ARATION	2.27	PERSO	N REL	IABILIT	Y .84
S.E. 0	F PERSON ME	EAN = .08							
RSON R	AW SCORE-TO ALPHA (KR-	-MEASURE (-20) PERSON	CORRELATION N RAW SCORE	= .97 "TEST"	RELIABI		= .83	SEM =	2.05
ERSON R/ RONBACH SUM	AW SCORE-TO ALPHA (KR- MARY OF 10	0-MEASURE (-20) PERSO MEASURED (CORRELATION N RAW SCORE (NON-EXTREM	4 = .97 E "TEST" 4E) ITEM	RELIABI	LITY	= .83	SEM =	2.05
ERSON R/ RONBACH SUM	AW SCORE-TO ALPHA (KR- MARY OF 10 TOTAL	D-MEASURE (-20) PERSON MEASURED (CORRELATION N RAW SCORE (NON-EXTREM	4 = .97 "TEST" 4E) ITEM MODEL	RELIABI	ILITY	= .83 T	SEM =	2.05 FIT
ERSON R/ RONBACH SUM	AW SCORE-TO ALPHA (KR- MARY OF 10 TOTAL SCORE	D-MEASURE (-20) PERSO MEASURED (COUNT	CORRELATION N RAW SCORE (NON-EXTREM MEASURE	4 = .97 "TEST" 4E) ITEM MODEL S.E.	RELIABI	INFI NFI NSQ	= .83 T ZSTD	SEM = OUTI MNSQ	2.05 FIT ZST0
ERSON R/ RONBACH SUM	AW SCORE-TO ALPHA (KR- MARY OF 10 TOTAL SCORE 1014.5	0-MEASURE (-20) PERSON MEASURED (COUNT 354.0	CORRELATION N RAW SCORE (NON-EXTREM MEASURE .00	4 = .97 E "TEST" ME) ITEM MODEL S.E. .09	RELIABI MN	INFI NSQ .00	= .83 T ZSTD 12	SEM = OUT MNSQ 1.00	2.05 FIT ZSTU 24
ERSON R/ RONBACH SUMI MEAN SEM	AW SCORE-TO ALPHA (KR- MARY OF 10 TOTAL SCORE 1014.5 12.1	COUNT 354.0 .0 .0 .0 .0 .0 .0 .0 .0 .0	CORRELATION N RAW SCORE (NON-EXTREM MEASURE .00 .09	N = .97 TEST" ME) ITEM MODEL S.E. .09 .00	RELIABI	INFI INFI NSQ .00	= .83 T ZSTD 12 .81	SEM = OUT MNSQ 1.00 .08	2.05 FIT 24 24
MEAN P.SD	AW SCORE-TU ALPHA (KR- MARY OF 10 TOTAL SCORE 1014.5 12.1 36.2	COUNT COUNT 354.0 .0	CORRELATION N RAW SCORE (NON-EXTREM MEASURE .00 .09 .27	N = .97 TEST ME) ITEM MODEL S.E. .09 .00	RELIABI	ILITY INFI ISQ .00 .07 .20	= .83 T ZSTD 12 .81 2.42	SEM = OUT MNSQ 1.00 .08 .25	2.05 FIT ZSTC 24 1.00 2.95
MEAN SUM	AW SCORE-T(ALPHA (KR- MARY OF 10 TOTAL SCORE 1014.5 12.1 36.2 38.1	0-MEASURE (-20) PERSON MEASURED (COUNT 354.0 .0 .0 .0	CORRELATION N RAW SCORE (NON-EXTREM MEASURE .00 .09 .27 .28	N = .97 E "TEST" ME) ITEM MODEL S.E. .09 .00 .00 .00	RELIABI MN 1.	INFI INFI ISQ .00 .07 .20 .21	= .83 T ZSTD 12 .81 2.42 2.55	SEM = OUT MNSQ 1.00 .08 .25 .27	2.05 FIT 25TC 24 1.00 2.99 3.19
RSON R/ RONBACH SUM MEAN SEM P.SD S.SD MAX.	AW SCORE-T(ALPHA (KR MARY OF 10 TOTAL SCORE 1014.5 12.1 36.2 38.1 1075.0	0-MEASURE (20) PERSON MEASURED (COUNT 354.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	CORRELATION N RAW SCORE (NON-EXTREM MEASURE .00 .09 .27 .28 .54	H = .97 "TEST" ME) ITEM MODEL S.E. .09 .00 .00 .00 .00 .00	RELIABI MN 1.	INFI INFI ISQ .00 .07 .20 .21 .34	= .83 T ZSTD 12 .81 2.42 2.55 3.76	SEM = OUT MNSQ 1.00 .08 .25 .27 1.41	2.05 FIT 25TC 24 1.06 2.95 3.15 4.65
MEAN SUM MEAN SEN P.SD S.SD MAX. MIN.	AW SCORE-T(ALPHA (KR: MARY OF 10 TOTAL SCORE 1014.5 12.1 36.2 38.1 1075.0 939.0	COUNT COUNT COUNT 354.0 .0 .0 354.0 354.0 354.0 354.0	NRAW SCORE (NON-EXTREM MEASURE .00 .09 .27 .28 .54 .54 .47	H = .97 "TEST" ME) ITEM MODEL S.E. .09 .00 .00 .00 .00 .00 .00 .0	RELIABI MM 1.	INFI INFI INFI 150 .00 .07 .20 .21 .34 .75 -	= .83 T ZSTD 12 .81 2.42 2.55 3.76 3.26	SEM = OUT MNSQ 1.00 .08 .25 .27 1.41 .68	2.05 FIT ZSTU 24 1.00 2.99 3.19 4.65 -4.13
MEAN SUM SEM P.SD S.SD MAX. MIN.	AW SCORE-T(ALPHA (KR- MARY OF 10 TOTAL SCORE 1014.5 12.1 36.2 38.1 1075.0 939.0	0-MEASURE (20) PERSON MEASURED (20UNT 354.0 .0 .0 .0 .0 354.0 354.0	NRAW SCORE (NON-EXTREM MEASURE .00 .09 .27 .28 .54 .47	4 = .97 "TEST" MODEL S.E. .09 .00 .00 .00 .00 .00 .00 .0	RELIABJ MM 1.	ILITY INFI ISQ .00 .07 .20 .21 .34 .75 -	= .83 T ZSTD 12 .81 2.42 2.55 3.76 3.26	SEM = OUT MNSQ 1.00 .08 .25 .27 1.41 .68	2.05 FIT 25TC 24 1.00 2.99 3.19 4.65 -4.13
RSON R RONBACH SUM MEAN SEM P.SD S.SD MAX. MIN. REAL RJ	AW SCORE-T(ALPHA (KR MARY OF 10 TOTAL SCORE 1014-5 12.1 36.2 30.1 1075.0 939.0 MSE .09	D-MEASURE (-20) PERSO MEASURED (COUNT 354.0 .0 .0 354.0 354.0 354.0 TRUE SD	NRAW SCORE (NON-EXTREM MEASURE .00 .07 .27 .28 .54 .47 .25 SEF	4 = .97 * TEST" ** TEST" ** MODEL 5.E. .09 .00 .00 .00 .00 .00 .00 .0	RELIABJ MM 1. 2.80	ILITY INFI ISQ 00 20 21 34 .75 ITEM	= .83 T ZSTD 12 .81 2.42 2.55 3.76 3.26 REL	SEM = OUT MNSQ 1.00 .08 .25 .27 1.41 .68 IABILIT	2.05 FIT 25TC 24 1.00 2.95 3.15 4.65 -4.13 Y .85
MEAN SUM SUM MEAN SEM P.SD S.SD MAX. REAL RI MIN. REAL RI ODEL RI S.E. O	AW SCORE-T(ALPHA (KR- MARY OF 10 TOTAL SCORE 1014.5 12.1 36.2 38.1 1075.0 939.0 MSE .09 MSE .09 MSE .09	D-MEASURE (20) PERSON MEASURED (COUNT 354.0 .0 .0 354.0 354.0 TRUE SD TRUE SD TRUE SD N = .09	NRAW SCORE (NON-EXTREM MEASURE .00 .09 .27 .28 .54 .47 .25 SEE .25 SEE	N = .97 E "TEST" MODEL 5.E. .09 .00 .00 .00 .00 .00 .00 .0	RELIABJ MM 1. 2.80 2.93	ILITY INFI ISQ 00 20 21 .34 .75 ITEM ITEM	= .83 T ZSTD 12 .81 2.42 2.55 3.76 3.26 REL REL	SEM = OUTH MNSQ 1.00 .08 .25 .27 1.41 .68 IABILIT IABILIT	2.05 FIT 2STI 24 1.00 2.99 3.19 4.65 -4.13 Y .89 Y .90

Figure 1. Summary statistics

Based on Figure 1, the research describes the meaning of each result of the research analysis. The Person measure coefficient is +0.68, which means that the respondents tend to agree on various statement items. Cronbach's alpha coefficient on IERS is 0.83, which means that the level of reliability is excellent. The coefficient of person reliability is 0.79, which has a pretty good meaning, while for item reliability, it is 0.89, which has a good definition. The following analysis as presented in Figure 2, focuses on describing item measure. This analysis determines which statement items are the easiest and the most difficult to get approval from the response.

As presented in Figure 2, item number 7 has a logit coefficient of +0.54. This coefficient indicates that item number 7 is the most difficult item to get approval from the response. While item number 5 has a logit coefficient of -0.47. This coefficient means that item number 3 is the item that is the easiest to get approval from the respondents. Rasch analysis also describes the item fit order. This analysis explains the fit and misfit items. Then, Figure 3 shows the analysis output on the item fit order aspect.

1774 🗖

Int J Eval & Kes Educ

ISSN: 2252-8822

D 1775

		ITEM S	TATISTI	CS: MEAS	URE ORDER						
	ENTRY NUMBER	TOTAL SCORE	TOTAL COUNT	MEASURE	MODEL IN S.E. MNSQ	IFIT OUT ZSTD MNSQ	TFIT PT ZSTD CO	MEASUR-AL	EXACT OBS%	MATCH EXP%	ITEM
į	7	939	354	.54	.08 1.31	3.76 1.41	4.65	.54 .63	51.0	56.3	7
	8	988	354	. 20	.08 1.00	.00 1.06	.75	.54 .62	63.3	60.3	8
	10	993	354	.17	.08 1.07	.92 1.05	.65	.63 .62	57.6	60.4	10
1	1	1005	354	.08	.09 1.12	1.47 1.18	2.09	.58 .61	61.3	60.7	1
İ	4	1009	354	.05	.09 .83	-2.14 .80	-2.55	.62 .61	65.6	60.8	4
i	6	1012	354	.03	.09 .78	-2.95 .71	-3.82	.67 .61	70.5	60.8	6
i	5	1029	354	10	.09 .75	-3.26 .68	-4.13	.66 .61	74.8	62.5	5
i	2	1043	354	21	.09 .84	-2.00 .78	-2.71	.68 .60	71.1	63.6	2
i	9	1052	354	28	.0911.34	3.64 1.38	3.99	.54 .60	57.0	63.7	9
į	3	1075	354	47	.09 .94	65 .89	-1.31	.67 .59	69.6	64.6	3
		1014 5	254.0			4 4 00			CA 0	+-	
	MEAN	1014.5	354.0	.00	.0911.00	111.00	2		64.2	61.4	
I	P.SD	36.2	.0	.27	.00 .20	2.4 .25	3.0	I	7.1	2.3	

Figure 2. Item measure

	ITEM S	TATISTI	CS: MISF	IT ORD	R								
ENTRY	TOTAL	TOTAL		MODEL	1	IFIT	00	FIT	PTMEAS	UR-AL	EXACT	MATCH	
NUMBER	SCORE	COUNT	MEASURE	S.E.	MNSQ	ZSTD	MNSQ	ZSTD	CORR.	EXP.	OBS%	EXP%	ITEM
												+	
1 7	939	354	.54	.08	1.31	3.76	1.41	4.65	A .54	.63	51.0	56.3	7
9	1052	354	28	.09	1.34	3.64	1.38	3.99	B.54	.60	57.0	63.7	9
1	1005	354	.08	.09	1.12	1.47	1.18	2.09	C .58	.61	61.3	60.7	1
10	993	354	.17	.08	1.07	.92	1.05	.65	D .63	.62	57.6	60.4	10
1 8	988	354	.20	.08	1.00	.00	1.06	.75	E.54	. 62	63.3	60.3	8
i 3	1075	354	47	.09	.94	65	.89	-1.31	e .67	. 59	69.6	64.6	3 İ
1 2	1043	354	21	. 09	.84	-2.00	.78	-2.71	d .68	.60	71.1	63.6	2
j 4	1009	354	.05	.09	.83	-2.14	.80	-2.55	c .62	.61	65.6	60.8	4
6	1012	354	.03	.09	.78	-2.95	.71	-3.82	b .67	.61	70.5	60.8	6
li 5	1029	354	10	.09	.75	-3.26	.68	-4.13	a .66	.61	74.8	62.5	5
												+	
MEAN	1014.5	354.0	.00	. 09	1.00	1	1.00	2	1		64.2	61.4	i
P.SD	36.2	.0	.27	.00	.20	2.4	.25	3.0		i	7.1	2.3	i

Figure 3. Item fit order

In Figure 3, the way to determine fit and misfit items is to combine the INFIT MNSQ value of each item with the sum of the standard deviations and the average. If the summation coefficient between the standard deviation and the average is greater than the INFIT MNSQ of each item, it is included in the category of misfit items. The standard deviations and mean sum are 1+0.20=1.20. As presented in Figure 3, items 7 and 9 fall into the misfit category, and we decided to revise the form of the statement items. The revision form for items 7 and 9 is described in Table 5. In Figure 4, we present the output of the Rasch analysis with the aspect of unidimensionality. This aspect describes a vital measure to evaluate whether the instrument can measure what it should count, in this case, the IERS.

Table 5. Revised IERS statement									
No. Item Old statement		New statement							
7	I keep emotions in my heart	I keep angry feelings in my heart							
9	I control my emotions by being silent	I control my anger by being silent							

Figure 4 shows the results of the raw data variance measurement of 38.2%. This coefficient indicates that we can meet the minimum 20% unidimensionality requirement. Another thing is that the variance that the instrument cannot explain should ideally not exceed 15%. In the unidimensionality analysis, nothing exceeds 15%. Based on the meaning of the output of the unidimensionality analysis, it shows that the IERS instrument can measure the actual conditions of students' emotional regulation.

Finally, Figure 5 shows the variable map. Analysis of the variable map describes the distribution of emotion regulation ability and the distribution of item difficulty level with the same scale. The area on the left is the distribution of the subject's abilities, while the area on the right is the item's difficulty level.

Table of STANDARDIZED RESIDUAL var	rianc	e in Eigenv	value ur	nits -	ITEM infor	mation	units
		Eigenvalue	Obser	"ved	Expected		
Total raw variance in observations	-	16.1866	100.0%		100.0%		
Raw variance explained by measures	-	6.1867	38.2%		38.5%		
Raw variance explained by persons	-	3.7068	22.9%		23.0%		
Raw Variance explained by items	-	2.4798	15.3%		15.4%		
Raw unexplained variance (total)	-	10.0000	61.8%	100.0%	61.5%		
Unexplned variance in 1st contrast	-	2.1001	13.0%	21.0%			
Unexplned variance in 2nd contrast	-	1.7445	10.8%	17.4%			
Unexplned variance in 3rd contrast	-	1.1891	7.3%	11.9%			
Unexplned variance in 4th contrast	-	1.1183	6.9%	11.2%			
Unexplned variance in 5th contrast	-	1.0121	6.3%	10.1%			

Figure 4. Unidimensionality





Int J Eval & Res Educ, Vol. 12, No. 4, December 2023: 1771-1780

The analysis results in Figure 5 show that item number 7 is the most challenging question for respondents to agree on. On the other hand, item number 3 is the most accessible item for respondents to agree on. In addition, Figure 5 also shows that person numbers 117, 122, 141, and 296 are the people who most easily agree with the IERS statement items. While person number 166 is the most challenging person to agree with the IERS statement item.

The results of research data analysis using the Rasch model show that IERS is one of the measuring tools that can measure the level of student emotion regulation. The accuracy of the measuring instrument to measure a determining variable is one of the requirements for photographing the actual condition of human behavior [28]. This measuring tool can help several parties in schools, mainly school counselors, identify the basis for the preparation of Guidance and Counseling programs that lead to the comfort and safety of students at school. A sense of psychological security and convenience for students at school can encourage students' self-actualization in academics and academic achievement [29]–[31].

Previous studies have attempted to formulate a measuring instrument for student emotion regulation. An example is emotion regulation strategies for artistic, creative activities scale [13]. A number of weaknesses in the existing instruments became the trigger for the development of this new instrument. It becomes a risk if the data as the basis for policy-making is not data that embodies the actual situation [32]. The study used Pearson's correlation to identify the validity of the instrument. Unlike the Rasch analysis, validity with Pearson correlation cannot provide comprehensive data analysis results [20], [33].

Other studies have also formulated a measuring instrument as an emotion regulation scale. An example is the state difficulties in the emotion regulation scale [14]. However, the data analysis to validate the emotion regulation instrument is factor analysis. Unlike the Rasch analysis, factor analysis cannot provide comprehensive descriptions such as respondents' quality, instruments' quality, and interactions between person and item [34]. Using Rasch analysis, it can provide a comprehensive description of the instrument's reliability and measure the actual conditions of human behavior.

Based on several studies, the weakness lies not only in data analysis but also in the cultural aspect. Thus, the data collection tools are still general and not yet specific to the target user. Several studies show that cultural factors influence respondents' understanding of instrument statement items [35], [36]. Some examples of instruments that pay attention to cultural aspects include the Turkish adaptation of behavioral regulations in sports questionnaires [37] and the Turkish adaptation of the caring climate scale. Another research is the Turkish adaptation of the caring climate scale in physical activity settings [38].

Previous studies have produced a culture-based emotional regulation scale. Some examples of these studies are the Turkish version of difficulties in emotion regulation scale-brief form [15], the Hindi version of the difficulties in emotion regulation scale [16], and modified versions of the difficulties in emotion regulation scale [17]. However, the instrument does not yet have specifications for students in Indonesia. In addition, data analysis still uses factor analysis which does not yet have accurate and comprehensive information, such as the Rasch analysis [39]. The Rasch model is an alternative to provide a more precise estimate of the reliability of measuring instruments [18]–[20].

It becomes interesting when some studies compare instrument validity analysis with conventional methods such as factor analysis with the Rasch model. Although traditional analytical techniques provide diverse information, measurements using the Rasch model reveal more about the data set and the instrument's construct [40]. In addition, the Rasch model also provides an alternative scaling method that allows the examination of an instrument's hierarchical structure and unidimensionality [41]. Rasch analysis has better effectiveness than factor analysis in removing instrument statement items and the percentage of variance [42]. Based on the explanation, we conclude that many studies recommend analyzing the instrument's validity using the Rasch model. Rasch is one of the modern data analyzers that is useful in determining the validity and reliability of an instrument and providing more specific information about a psychological measuring instrument.

No research explicitly develops an instrument for emotion regulation scale based on Indonesian culture. Therefore, this study seeks to include elements of Indonesian culture so that students can clearly understand the intent and meaning of the instrument statement items. Students' understanding of the content of the statement items provides support for the ease of students choosing the instrument statement items that best suit them. For example, this instrument is the Indonesian version of the depression anxiety stress scale [43] and Indonesian version subjective well-being scale [44].

Indonesian emotion regulation scale is one of the instruments that can be used as the basis for policymakers, especially in building a non-violent environment. Moreover, counselors have the role and capacity to develop programs to improve emotion regulation, and emotion regulation is one of the variables that influence reducing student violence [45]–[47]. A school environment that promotes non-violence can trigger good student perceptions of the school climate. Students' perception of school climate is one of the variables that determine academic performance [48] and academic achievement [49]. The situation of a safe,

comfortable, and minimally violent school environment is one of the dreams of students to be able to support their self-actualization in learning at school.

This study has limitations in determining the level of instrument validity. One of this research's weaknesses is the respondents' involvement, which focuses on high school students in Yogyakarta. Indonesia is an archipelagic country consisting of 37 provinces. In addition, another limitation of this research is that the instrument can only measure emotion regulation variables in general and does not lead to specific aspects of student emotion regulation in Indonesia. Therefore, the recommendation for further research is to conduct a trial of the IERS instrument by involving more regions in Indonesia. In addition, further analysis can also develop IERS instruments on specific aspects, such as aspects of school, community, or even family.

4. CONCLUSION

Counselors need a measuring tool that can specifically reveal students' emotional regulation levels in Indonesia. The Indoesian emotion regulation scale is the answer for counselors to their need for a measuring instrument to determine the level of regulation of high school students in Indonesia. This instrument for measuring student emotion regulation consists of two major aspects: reappraisal and suppression factor. The reappraisal factor aspect consists of six statement items. In contrast, the suppression factor aspect consists of four statement items. Research data analysis using Rasch analysis shows that Indonesian emotion regulation scale is an instrument capable of measuring emotion regulation, although the researchers id some revisions to the statement items. The research product in the form of IERS has contributed to the formation of a non-violent environment that supports the learning process through the steps of developing emotional regulation in each student.

ACKNOWLEDGEMENTS

Authors thanks to the Universitas Ahmad Dahlan who provided accommodation and funding for this research activity (Number: PD-135/SP3/LPPM-UAD/VII/2022).

REFERENCES

- C. Côté-Lussier and C. Fitzpatrick, "Feelings of safety at school, socioemotional functioning, and classroom engagement," Journal of Adolescent Health, vol. 58, no. 5, pp. 543–550, May 2016, doi: 10.1016/j.jadohealth.2016.01.003.
- J. Lacoe, "Too scared to learn? The academic consequences of feeling unsafe in the classroom," Urban Education, vol. 55, no. 10, pp. 1385–1418, Dec. 2020, doi: 10.1177/0042085916674059.
- [3] B. W. Fisher, S. Viano, F. C. Curran, F. A. Pearman, and J. H. Gardella, "Students' feelings of safety, exposure to violence and victimization, and authoritative school climate," *American Journal of Criminal Justice*, vol. 43, no. 1, pp. 6–25, Mar. 2018, doi: 10.1007/s12103-017-9406-6.
- [4] S. E. Perumean-Chaney and L. M. Sutton, "Students and perceived school safety: the impact of school security measures," *American Journal of Criminal Justice*, vol. 38, no. 4, pp. 570–588, Dec. 2013, doi: 10.1007/s12103-012-9182-2.
- [5] Purwadi et al., "Peace Guidance Based on the Perspective of Markesot: Acceptability and Effectiveness of Reducing Student Aggressiveness," Pegem Journal of Education and Instruction, vol. 12, no. 1, pp. 213–221, Jan. 2022, doi: 10.47750/pegegog.12.01.22.
- [6] W. N. E. Saputra et al., "Peace counseling approach (PCA) to reduce negative aggressive behavior of students," Universal Journal of Educational Research, vol. 8, no. 2, pp. 631–637, Feb. 2020, doi: 10.13189/ujer.2020.080236.
- [7] N. A. Gage, D. A. Prykanowski, and A. Larson, "School climate and bullying victimization: a latent class growth model analysis," *School Psychology Quarterly*, vol. 29, no. 3, pp. 256–271, Sep. 2014, doi: 10.1037/spq0000064.
- [8] A. Goldweber, T. E. Waasdorp, and C. P. Bradshaw, "Examining the link between forms of bullying behaviors and perceptions of safety and belonging among secondary school students," *Journal of School Psychology*, vol. 51, no. 4, pp. 469–485, Aug. 2013, doi: 10.1016/j.jsp.2013.04.004.
- [9] C. Garofalo, C. S. Neumann, and P. Velotti, "Psychopathy and aggression: the role of emotion dysregulation," *Journal of Interpersonal Violence*, vol. 36, no. 23–24, pp. 12640–12664, Dec. 2021, doi: 10.1177/0886260519900946.
- [10] S. R. Holley, S. T. Ewing, J. T. Stiver, and L. Bloch, "The relationship between emotion regulation, executive functioning, and aggressive behaviors," *Journal of Interpersonal Violence*, vol. 32, no. 11, pp. 1692–1707, Jun. 2017, doi: 10.1177/0886260515592619.
- [11] M. Akram, "Need assessment counseling for school adolescent students," *Education, Sustainability & Society*, vol. 4, no. 1, pp. 28–32, Jan. 2021, doi: 10.26480/ess.01.2021.28.32.
- [12] G.-S. Emily, B.-B. Jennifer, and D. Peg, "Aligning comprehensive school counseling programs and positive behavioral interventions and supports to maximize school counselors' efforts," *Professional School Counseling*, vol. 19, no. 1, pp. 1096– 2409, Sep. 2015, doi: 10.5330/1096-2409-19.1.57.
- [13] D. Fancourt, C. Garnett, N. Spiro, R. West, and D. Müllensiefen, "How do artistic creative activities regulate our emotions? Validation of the emotion regulation strategies for artistic creative activities scale (ERS-ACA)," *PloS one*, vol. 14, no. 2, pp. 1–22, Feb. 2019, doi: 10.1371/journal.pone.0211362.
- [14] J. M. Lavender, M. T. Tull, D. DiLillo, T. Messman-Moore, and K. L. Gratz, "Development and validation of a state-based measure of emotion dysregulation: the state difficulties in emotion regulation scale (S-DERS)," Assessment, vol. 24, no. 2, pp. 197–209, Mar. 2017, doi: 10.1177/1073191115601218.

Int J Eval & Res Educ, Vol. 12, No. 4, December 2023: 1771-1780

- [15] İ. Yiğit and M. G. Yiğit, "Psychometric properties of Turkish version of difficulties in emotion regulation scale-brief form (DERS-16)," *Current Psychology*, vol. 38, no. 6, pp. 1503–1511, Dec. 2019, doi: 10.1007/s12144-017-9712-7.
- [16] P. Bhatnagar, M. Shukla, and R. Pandey, "Validating the Factor Structure of the Hindi Version of the Difficulties in Emotion Regulation Scale," *Journal of Psychopathology and Behavioral Assessment*, vol. 42, no. 2, pp. 377–396, Jun. 2020, doi: 10.1007/s10862-020-09796-6.
- [17] N. Benfer, J. R. Bardeen, T. A. Fergus, and T. A. Rogers, "Factor structure and incremental validity of the original and modified versions of the difficulties in emotion regulation scale," *Journal of Personality Assessment*, vol. 101, no. 6, pp. 598–608, Nov. 2019, doi: 10.1080/00223891.2018.1492927.
- [18] T. G. Bond and C. M. Fox, Applying the Rasch model: fundamental measurement in the human sciences, 2nd ed. New York: Taylor & Francis, 2013.
- [19] W. J. Boone, "Rasch analysis for instrument development: why, when, and how?" CBE—Life Sciences Education, vol. 15, no. 4, pp. 1–7, Dec. 2016, doi: 10.1187/cbe.16-04-0148.
- [20] N. S. da Rocha, E. Chachamovich, M. P. de A. Fleck, and A. Tennant, "An introduction to Rasch analysis for psychiatric practice and research," *Journal of Psychiatric Research*, vol. 47, no. 2, pp. 141–148, Feb. 2013, doi: 10.1016/j.jpsychires.2012.09.014.
- [21] A. Ardila, "Cultural values underlying psychometric cognitive testing," *Neuropsychology Review*, vol. 15, no. 4, pp. 185–195, Dec. 2005, doi: 10.1007/s11065-005-9180-y.
 [22] M. E. Reichenheim and C. L. Moraes, "Operationalizing the cross-cultural adaptation of epidemiological measurement
- [22] M. E. Reichenheim and C. L. Moraes, "Operationalizing the cross-cultural adaptation of epidemiological measurement instruments," (in Portuguese), *Revista de Saúde Pública*, vol. 41, no. 4, pp. 665–673, Aug. 2007, doi: 10.1590/S0034-89102006005000035.
- [23] R. Y. Cai, A. L. Richdale, C. Dissanayake, J. Trollor, and M. Uljarević, "Emotion regulation in autism: Reappraisal and suppression interactions," *Autism*, vol. 23, no. 3, pp. 737–749, Apr. 2019, doi: 10.1177/1362361318774558.
- [24] J. J. Gross and O. P. John, "Individual differences in two emotion regulation processes: implications for affect, relationships, and well-being," *Journal of Personality and Social Psychology*, vol. 85, no. 2, pp. 348–362, 2003, doi: 10.1037/0022-3514.85.2.348.
- [25] D. A. Preece, R. Becerra, K. Robinson, and J. J. Gross, "The emotion regulation questionnaire: psychometric properties in general community samples," *Journal of Personality Assessment*, vol. 102, no. 3, pp. 348–356, May 2020, doi: 10.1080/00223891.2018.1564319.
- [26] B. Sumintono, "Rasch model measurements as tools in assessment for learning," in *Proceedings of the 1st International Conference on Education Innovation (ICEI 2017)*, 2018, pp. 38–42, doi: 10.2991/icei-17.2018.11.
- [27] J. M. Linacre, A user's guide to WINSTEPS MINISTEP Rasch-model computer programs. Chicago: Winsteps.com, 2011.
- [28] M. E. Echevarría-Guanilo, N. Gonçalves, and P. J. Romanoski, "Psychometric properties of measurement instruments: conceptual bases and evaluation methods-part I," *Texto & Contexto - Enfermagem*, vol. 26, no. 4, pp. 1–12, Jan. 2018, doi: 10.1590/0104-07072017001600017.
- [29] T. T. Amholt, J. Dammeyer, R. Carter, and J. Niclasen, "Psychological well-being and academic achievement among school-aged children: a systematic review," *Child Indicators Research*, vol. 13, no. 5, pp. 1523–1548, Oct. 2020, doi: 10.1007/s12187-020-09725-9.
- [30] S. Bücker, S. Nuraydin, B. A. Simonsmeier, M. Schneider, and M. Luhmann, "Subjective well-being and academic achievement: a meta-analysis," *Journal of Research in Personality*, vol. 74, pp. 83–94, Jun. 2018, doi: 10.1016/j.jrp.2018.02.007.
- [31] N. Kiuru, M.-T. Wang, K. Salmela-Aro, L. Kannas, T. Ahonen, and R. Hirvonen, "Associations between adolescents' interpersonal relationships, school well-being, and academic achievement during educational transitions," *Journal of Youth and Adolescence*, vol. 49, no. 5, pp. 1057–1072, May 2020, doi: 10.1007/s10964-019-01184-y.
- [32] D. A. Cook and T. J. Beckman, "Current concepts in validity and reliability for psychometric instruments: theory and application," *American Journal of Medicine*, vol. 119, no. 2, pp. 166.e7-166.e16, Feb. 2006, doi: 10.1016/j.amjmed.2005.10.036.
- [33] C. van Zile-Tamsen, "Using Rasch analysis to inform rating scale development," *Research in Higher Education*, vol. 58, no. 8, pp. 922–933, Dec. 2017, doi: 10.1007/s11162-017-9448-0.
- [34] M. M. Mohamad, N. L. Sulaiman, L. C. Sern, and K. M. Salleh, "Measuring the validity and reliability of research instruments," *Procedia - Social and Behavioral Sciences*, vol. 204, pp. 164–171, Aug. 2015, doi: 10.1016/j.sbspro.2015.08.129.
- [35] E. Athanasiadou et al., "Development and Validation of a Mediterranean Oriented Culture-Specific Semi-Quantitative Food Frequency Questionnaire," Nutrients, vol. 8, no. 9, pp. 1–20, Aug. 2016, doi: 10.3390/nu8090522.
- [36] Z. Vajda, "Introduction of psychometry in Hungary practical purposes and theoretical doubts," *European Yearbook of the History of Psychology*, vol. 3, pp. 137–154, Jan. 2017, doi: 10.1484/J.EYHP.5.114472.
- [37] T. Çetinkaya and C. Mutluer, "Turkish adaptation of behavioral regulations in sports questionnaire and reviewing psychometry properties: validation and reliability study," *International Journal of Higher Education*, vol. 7, no. 5, pp. 185–193, Oct. 2018, doi: 10.5430/ijhe.v7n5p185.
- [38] T. Cetinkaya and C. Mutluer, "Turkish Adaptation of Caring Climate Scale and Reviewing Psychometry Properties: Validation and Reliability Study," *Journal of Education and Learning*, vol. 8, no. 1, pp. 206–213, 2019, doi: 10.5539/jel.v8n1p206.
- [39] A. Denovan, N. Dagnall, and K. Drinkwater, "The ego resiliency scale-revised: confirmatory factor analysis and Rasch models," *Journal of Psychoeducational Assessment*, vol. 40, no. 6, pp. 707–721, Sep. 2022, doi: 10.1177/07342829221090117.
- [40] D. D. Curtis, "Comparing classical and contemporary analyses and Rasch measurement," in Applied Rasch measurement: a book of exemplars, Dordrecht: Springer Netherlands, 2005, pp. 179–195, doi: 10.1007/1-4020-3076-2_10.
- [41] L. Prieto, J. Alonso, and R. Lamarca, "Classical test theory versus Rasch analysis for quality of life questionnaire reduction," *Health and Quality of Life Outcomes*, vol. 1, pp. 1–13, 2003, doi: 10.1186/1477-7525-1-27.
 [42] M. Y. L. Chiu, H. T. Wong, and W. W. N. Ho, "A comparative study of confirmatory factor analysis and Rasch analysis as item
- [42] M. Y. L. Chiu, H. T. Wong, and W. W. N. Ho, "A comparative study of confirmatory factor analysis and Rasch analysis as item reduction strategies for SAMHSA recovery inventory for Chinese (SAMHSA-RIC)," *The European Journal of Psychiatry*, vol. 34, no. 2, pp. 74–81, Apr. 2020, doi: 10.1016/j.ejpsy.2020.02.002.
- [43] D. Muttaqin and S. Ripa, "Psychometric properties of the Indonesian version of the depression anxiety stress scale: Factor structure, reliability, gender, and age measurement invariance," *Psikohumaniora: Jurnal Penelitian Psikologi*, vol. 6, no. 1, pp. 61–76, Apr. 2021, doi: 10.21580/pjpp.v6i1.7815.
- [44] I. S. Borualogo et al., "Process of translation of the children's worlds subjective well-being scale in Indonesia," in Proceedings of the Social and Humaniora Research Symposium (SoRes 2018), 2019, pp. 180–183, doi: 10.2991/sores-18.2019.42.
- [45] C. F. Bliton *et al.*, "Emotion dysregulation, gender, and intimate partner violence perpetration: an exploratory study in college students," *Journal of Family Violence*, vol. 31, no. 3, pp. 371–377, Apr. 2016, doi: 10.1007/s10896-015-9772-0.
- [46] S. R. Miles et al., "Emotion dysregulation as an underlying mechanism of impulsive aggression: Reviewing empirical data to inform treatments for veterans who perpetrate violence," Aggression and Violent Behavior, vol. 34, pp. 147–153, May 2017, doi: 10.1016/j.avb.2017.01.017.

- [47] R. C. Shorey, J. K. McNulty, T. M. Moore, and G. L. Stuart, "Emotion regulation moderates the association between proximal negative affect and intimate partner violence perpetration," *Prevention Science*, vol. 16, no. 6, pp. 873–880, Aug. 2015, doi: 10.1007/s11121-015-0568-5.
- [48] W. N. E. Saputra, A. Supriyanto, B. Astuti, Y. Ayriza, and S. Adiputra, "The effect of student perception of negative school climate on poor academic performance of students in Indonesia," *International Journal of Learning, Teaching and Educational Research*, vol. 19, no. 2, pp. 279–291, Feb. 2020, doi: 10.26803/ijlter.19.2.17.
- [49] L. T. Back, E. Polk, C. B. Keys, and S. D. McMahon, "Classroom management, school staff relations, school climate, and academic achievement: testing a model with urban high schools," *Learning Environments Research*, vol. 19, no. 3, pp. 397–410, Oct. 2016, doi: 10.1007/s10984-016-9213-x.

BIOGRAPHIES OF AUTHORS



Waharjani 💿 🔝 🖾 o is a lecturer, Department of Islamic Education, Universitas Ahmad Dahlan, Yogyakarta, Indonesia. His research focuses on Islamic guidance and counseling and Islamic psychology. He can be contacted at email: waharjani@ilha.uad.ac.id.



Wahyu Nanda Eka Saputra 😳 🔣 🖾 🗘 is a Ph.D. and Lecturer, Department of Guidance and Counseling, Universitas Ahmad Dahlan, Indonesia. His research focuses on peace education, strategy of counseling intervention, counseling based on local wisdom, and counseling based on creative art. He can be contacted at email: wahyu.saputra@bk.uad.ac.id.



Dewi Afra Khairunnisa (**Dewi Afra Khairunnisa**) (**Dewi Afra Khairunnisa** (**Dewi Afra Khairunnisa**) (**Dewi Afra Khairunni**